NC/QC/DP-W13/2019-20/MS-C1 Date: 04-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganna. K. M.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**163 min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.85 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.35 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Date: 04-02-2019

NC/QC/DP-W13/2019-20/MS -PCC1

1. **TESTING OF COARSE AND FINE AGGREGATES:**

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganna. K. M.

1. **COARSE AGGRGATES TABLE - SIEVE ANALYSIS:**

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.10	0 -20	30- 70
10mm	32.45	0 -5	10- 35
4.75mm	3.95	------	0- 5

2. **FINE AGGREGATES TABLE - SIEVE ANALYSIS:**

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	85.10	60-95	75-100	85-100	
01.18	68.35	30-70	55-90	75-100	
600.mic	52.70	15-34	35-59	60-79	
300.mic	23.90	5-20	8-30	12-40	
150.mic	5.25	0-10	0-10	0-10	

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NC/QC/DP-W13/2019-20/MS -C2

Date: 15-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganna. K. M.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**265min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.45 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.38 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/DP-W13/2019-20/MS-FA1 Date: 15-02-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{*Project**: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}

Ref.: Material testing/QC/19-20,

Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Ranganna. K. M.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.40**	60-95	75-100	85-100	
01.18	**73.60**	30-70	55-90	75-100	
600. mic	**45.10**	15.34	35-59	60-79	
300.mic	**24.05**	5-20	8-30	12-40	
150.mic	**6.15**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**15.45 %**	-----
2	Silt Content	----	**0.57 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/DP-W13/2019-20/MS-S1 Date: 15-02-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10, 12 and 16 mm **TMT Steel.**
{Project*: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganna. K. M.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0mm**	12.0mm
02	Observed Wt/m Length **Kg/m**	**0.623**	0.567	**0.891**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**535.0**	500.0	**53.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.10**	12.00	**22.30**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**638.0**	545.0	**631.0**	545.0

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Date: 15-02-2019

TABLE – 2

SL No	Details	For 16 mm	
		Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	16.0 mm	16.0 mm
02	Observed Wt/m Length Kg/m	1.582	1.483
03	Proof stress/Yield stress, fy , N/mm^2	545.0	500.0
04	Bend/ Re bend Test	Ok	---
05	Percentage of Elongation, %	19.40	12.00
06	Ultimate Tensile Strength N/mm^2	641.0	545.0

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NC/QC/DP-W13/2019-20/MS-CB1

Date: 06-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganna. K. M.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-02-19	06-03-19	07	22500	425	18.89	**19.26**
	002	"	"	"	"	435	19.33	
	003	"	"	"	"	440	19.56	

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NC/QC/DP-W13/2019-20/MS-CB2 Date: 09-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ranganna. K. M.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-03-19	09-03-19	07	22500	420	18.67	**19.11**
	002	‘’	“	‘’	“	430	19.11	
	003	‘’	“	‘’	“	440	19.56	

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NC/QC/DP-W13/2019-20/MS-CB3A

Date: 04-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Special developments works at Mallasandra Colony School in Mallasandra Ward No: 13.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Ranganna. K. M.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-03-19	04-04-19	28	22500	500	22.22	**22.96**
	002	‘’	“	‘’	“	520	23.11	
	003	‘’	“	‘’	“	530	23.56	

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